



## Online Seminar Vocabulary List Deutsch

Term	Definition	Deutsch	Notes
bearing	a machine component connecting parts moving at different speeds (e.g. shaft & housing)	Lager	
rolling contact	describes the nature of the contact area in rolling-element bearings	Wälzkontakt	
friction	a resistance to motion	Reibung	
wear	a loss of material and/or alteration of surfaces due to relative motion between two parts	Verschleiß	
lubricant	a substance used to separate solid surfaces to reduce friction and wear; typically oil or grease	Schmierstoff	
deep groove ball bearing	a type of bearing using balls	Rillenkugellager	
angular contact ball bearing	a type of bearing using balls	Schrägkugellager	
spherical ball bearing	a type of bearing using balls	Pendelkugellager	
four point contact ball bearing	a type of bearing using balls	Vierpunktlager	
cylindrical roller bearing	a type of bearing using rollers	Zylinderrollenlager	
needle bearing	a type of bearing using rollers	Nadellager	
tapered roller bearing	a type of bearing using rollers	Kegelrollenlager	
spherical roller bearing	a type of bearing using rollers	Pendelrollenlager	
curved contact area	describes the form of the contact surface inside a rolling-element bearing	Gewölbte Kontaktfläche	
slippage distribution	describes the location and extent of slipping in the contact of a rolling-element bearing	Schlupfverteilung	
premature	too early	vorzeitig	
reinforced	with increased strength	verstärkt	
lubrication film	a thin layer of lubricant between solid bodies	Schmierfilm	
perpendicular	forming an angle of 90°	rechtwinklig	
pattern	visual appearance	Muster (im Sinne von Gebrauchsspuren)	
shoulder	a change in cross section, e.g. of a shaft	Bord / Absatz	
life time	the time until failure of a part	Lebensdauer	
cage	a part that holds the rolling elements in a rolling-contact bearing	Käfig	
stiffness	the resistance against elastic deformation	Steifigkeit	
fiber-reinforced	a compound material consisting of a matrix (e. g. plastic) and fibers of a stronger material (e.g. glass)	faserverstärkt	
admissible	what can be allowed	zulässig	
sheet metal	metal that has been formed into thin, flat pieces	Blech	
brass	an alloy of copper and zinc	Messing	
misalignment	deviation from ideal positioning	Versatz	

locating / non-locating arrangement	type of bearing arrangement	Fest-Los-Lagerung	
adjusted arrangement	type of bearing arrangement	angestellte Lagerung	
floating arrangement	type of bearing arrangement	schwimmende Lagerung	
assembly	a group of mutually dependent and compatible components (e.g. tire and rim)	Zusammenbau / Montage / Baugruppe	
embracement	an arrangement that leads to the application of additional forces	Verspannung	
thermal expansion / contraction	a change in size due to changing temperature (warmer/cooler)	Wärmedehnung	
clearance	a space for free movement	Spiel (freie Bewegung)	
roughness	measure of the texture of a surface; the vertical deviation of the surface from its ideal form	Rauheit	
fit	the clearance between two mating parts, defines their ability to move relative to one another once assembled (clearance fit, transition fit, interference fit)	Passung	
radial runout	results in a part rotating slightly off-center which causes oscillation when spinning	Radialschlag	
wear inhibition	prevention of wear	Verschleißvermeidung	
heat dissipation	the removal of heat out of a system	Wärmeabfuhr	
viscosity	the resistance of fluids to shear stress and the resultant change of shape	Viskosität	
additive	a component added to a lubricant to modify its properties	Additiv	
inclusion	for steels, a non-metallic impurity	Einschluss	
separation	components of a liquid becoming distinct	Seigerung / Entmischung	
through-hardened steel	steel that has been hardened throughout in order to increase its strength	durchhärtender Stahl	
case-hardened steel	steel that has only been hardened on the surface with the bulk of the material remaining soft	Einsatzstahl	
pitting	the loss of flakes of material from a surface	Grübchenbildung	
fatigue load limit	a parameter of bearing strength; the load level below which metal fatigue will not occur	Ermüdungsgrenzbelastung	
static load rating / static capacity	a parameter of bearing strength; the load that a bearing can endure before the raceway suffers a permanent distortion of 0,01% the diameter of the rolling element	Statische Tragzahl	
dynamic load rating / dynamic capacity	a parameter of bearing strength; the load that a bearing can theoretically endure for one million revolutions	Dynamische Tragzahl	
elastic deformation	a deformation that disappears after the external force is removed	elastische Verformung	